



English Version (Japanese Translation) OEM

screen ink

Pad ink

general printing | Two-component reaction type

# PAD-SAP

## Product Features

- Evaporative drying inks strongly adhere to materials with insufficient adhesion.
- It forms a tough hardened film with excellent physical properties such as weather resistance.

## Features

Tough hardened film

Adhesion

## Endurance

Chemical resistance

Physical Endurance

weather resistance

abrasion resistance

## Recommended Printed Materials

### Material

olefin-based

Treated Polyethylene [PE]

Treated Polypropylene [PP]

engineering plastic

Polyamide [PA]

nylon

Liquid Crystal Polymer [LCP]

PPS

Painted surface

Painted metal

Coated metal sheet

Surfaces treated with metal, glass, ceramics, and hard coatings

metallic base

plated surface

glass

thermosetting resin

epoxy resin

Phenolic resin

## Finish, Texture, and Visual Effects

### finish

gross

## Color & Grade

### Standard Colors (Standard Colors)

00 Medium

02 Yellow

03 Green and Yellow

05 Gold Red

07 White

08 Red

16 Pink

17 Red

25 Purple

28 Orange

45 Dark Blue

46 Blue

75 Green

85 Ultramarine

90 Black

### Standard Colors (Weather-Resistant Colors)

13 Qing Huang

14 Red and Yellow

### EXO color

yellow

white

Red

orange

## Specifications

### Lotus form

1kg metal can

### Accessories

- Hardening agent 100g metal can
- Solvent: 1kg can / 15kg can



## How to use

- Add 10 parts curing agent to 100 parts ink, and 10~30 parts solvent to 110 parts ink + curing agent, stir well, and then print.
- The available usage hours are as follows.  
Even after the intended time has passed, the ink remains fluid and can print, but the film's physical properties will deteriorate, so please avoid using it.
  - JA-950: 6~10 hours
  - JA-960: 3~6 hours

### diluent

- ES solvent (quick-drying, standard, slow-drying)
- NT solvent
- SGA solvent

## print edition

### Printing Methods & Formats

Pad printing

### Cleaning

Vinyl cleaning solvent

## Curing Method & Conditions

- It can cure even at low temperatures from room temperature to about 70° C, but for complete curing, the JA-950 must be heated to temperatures above 100° C, and the JA-960 at 80° C or higher.  
(Guideline for complete curing: friction coefficient of 100 times or more in alcohol resistance test)
  - JA-950: 100° C 40~80 min, 120° C 20~40 min, 150° C 10~20 min
  - JA-960: 80° C 60~120 min, 100° C 20~40 min, 120° C 10~20 min

### Reaction curing conditions

#### Curing Agents and Accelerators

- JA-950 (No yellowing, slow curing type)
- JA-960 (Difficult yellowing, rapid curing type)

## Classification under the Fire Service Act and the Organic Solvent Poisoning Prevention Regulations (Organic Rules)

| Product Name  | Applicable Products                               | Fire Service Act Hazardous Materials Classification | Organic Classification        |
|---------------|---------------------------------------------------|-----------------------------------------------------|-------------------------------|
| PAD-SAP-1 Ink | Except for the following (including mixed colors) | Category 4, Second Petroleum                        | Type 3 organic solvents, etc. |
| PAD-SAP-2 Ink | 07 White, EXO color                               | Category 4, Second Petroleum                        | Type 3 organic solvents, etc. |
| ES solvent    | Quick drying, standard, slow drying               | Category 4, Second Petroleum                        | Type 2 organic solvents, etc. |
| NT solvent    | quick-dry                                         | Category 4, Second Petroleum                        | Type 2 organic solvents, etc. |
| NT solvent    | Standard, Late Dries                              | Category 4, Second Petroleum                        | Type 3 organic solvents, etc. |
| SGA solvent   | Quick drying, standard, slow drying               | Category 4, Second Petroleum                        | Type 2 organic solvents, etc. |
| Vinyl solvent | for washing                                       | Category 4, Second Petroleum                        | Type 2 organic solvents, etc. |
| hardener      | JA-960                                            | Category IV: Petroleum                              | Type 2 organic solvents, etc. |
| hardener      | JA-950                                            | Category 4, Second Petroleum                        | Not applicable                |
| hardener      | JA-980                                            | Category IV: Petroleum                              | Type 2 organic solvents, etc. |
| additive      | JA-1000                                           | Category IV, Third Petroleum                        | Not applicable                |

### Notes

- This ink is an OEM product.  
When purchasing, [Navitas Machinery Co., Ltd.](#) Please consult with us.
- Store in a tightly sealed state.  
(Hardeners harden due to moisture.) )
- After opening, try to use it up as soon as possible.
- Since PAD-SAP is a two-component reaction ink, insufficient curing will prevent it from performing at its original level.
- Compared to JA-960, JA-950 forms a film with superior flexibility and strong adhesion. JA-960 is superior in terms of curing and film hardness, but from a physical property perspective, we recommend using JA-950.

- When printing on glass, we recommend using PAD-EPH ink, which has stronger adhesion, instead of PAD-SAP ink. Even when using PAD-SAP ink, for every 100 parts of ink, 10 parts of curing agent JA-980 (for heat curing only) are used, Furthermore, adding one copy of additive JA-1000 for printing provides strong adhesion. When using JA-980, please set the curing condition to 160° C for 30 minutes.
- When printing on PE or PP, please treat the surface with a wet index value of 65 mN/m or higher. However, depending on the type and components of the equipment, even if a higher wet index value is obtained, sufficient adhesion may not be achieved. Yes, there is. Be sure to conduct a confirmation test before printing.
- For safety precautions when using the product, please refer to the product's Safety Data Sheet (SDS).
- The contents provided in this information may be changed or revised without prior notice.
- When using the device, please thoroughly consider the conditions based on the evaluation results of the equipment and substrate actually being used.